

Name \_\_\_\_\_

Teacher/Period \_\_\_\_\_

Date \_\_\_\_\_

QUEST

Chapter 5 ~~123~~ Review

Test Date: Thursday, March 22

**Directions:** Go to page 252-253 of your textbook. Complete #3, 5, 7, 11, 18, 19, 20, 22, 23, 24, 25, 26, 27 and 34. Show your work below. Check your progress by checking your answers as you work using the given answer key.


		<p><b><u>Answer Key</u></b></p> <p>3. <math>1\frac{1}{2}</math></p> <p>5. 1</p> <p>7. 14</p> <p>11. About 6 cups</p> <p>18. <math>\frac{1}{8}</math></p> <p>19. <math>1\frac{7}{30}</math></p> <p>20. <math>\frac{13}{15}</math></p> <p>22. <math>17\frac{1}{3}</math></p> <p>23. <math>63\frac{9}{10}</math></p> <p>24. <math>59\frac{7}{12}</math></p> <p>25. <math>3\frac{3}{5}</math></p> <p>26. <math>6\frac{3}{8}</math></p> <p>27. <math>16\frac{7}{9}</math></p> <p>34. 3 hours and 41 minutes</p>



## Lesson 5-1

- To estimate sums and differences with fractions and mixed numbers

A **benchmark** is a whole number or fraction that is easy to use when you estimate. You can use the benchmarks  $0$ ,  $\frac{1}{2}$ , or  $1$  to estimate sums and differences of fractions. To estimate sums and differences of mixed numbers, round to the nearest whole number.

**Estimate each sum or difference. Use the benchmarks  $0$ ,  $\frac{1}{2}$ , and  $1$ .**

3.  $\frac{8}{9} + \frac{3}{7}$

4.  $\frac{5}{8} - \frac{3}{12}$

5.  $\frac{4}{5} + \frac{1}{6}$

6.  $\frac{23}{35} - \frac{4}{7}$

**Estimate each sum or difference.**

7.  $4\frac{1}{7} + 9\frac{7}{14}$

8.  $24\frac{11}{16} - 15\frac{1}{4}$

9.  $8\frac{5}{6} + 6\frac{3}{8}$

10.  $45\frac{33}{35} - 40\frac{2}{7}$

11. You need  $1\frac{1}{3}$  cups of lemon juice and  $4\frac{3}{4}$  cups of water to make lemonade. Estimate the amount of lemonade you will make.

## Lessons 5-2 and 5-3

- To add and subtract fractions with like denominators
- To add and subtract fractions with unlike denominators

To add or subtract fractions, write each fraction using a common denominator. Then add or subtract the numerators.

**Find each sum or difference.**

12.  $\frac{2}{5} + \frac{5}{5}$

13.  $\frac{7}{8} - \frac{3}{8}$

14.  $\frac{3}{20} + \frac{9}{20}$

15.  $\frac{25}{36} - \frac{5}{36}$

16.  $\frac{1}{8} + \frac{3}{4}$

17.  $\frac{4}{5} - \frac{3}{10}$

18.  $\frac{17}{24} - \frac{7}{12}$

19.  $\frac{11}{15} + \frac{1}{2}$

20. You rode your bicycle  $\frac{2}{3}$  mile to school and  $\frac{1}{5}$  mile to a friend's house. How far did you ride your bicycle?



**Lesson 5-4**

add mixed numbers with  
without renaming

You can add mixed numbers by first adding the whole numbers and then adding the fraction parts.

Find each sum.

21.  $3 + 4\frac{1}{8}$

22.  $9\frac{8}{9} + 7\frac{4}{9}$

23.  $35\frac{1}{5} + 28\frac{7}{10}$

24. Your sister is 10 years old and is  $54\frac{1}{3}$  inches tall. Her doctor says she will grow about  $2\frac{1}{2}$  inches during the next year and about  $2\frac{3}{4}$  inches the year after that. About how tall will your sister be when she is 12 years old?

**Lesson 5-5**

subtract mixed numbers  
with and without renaming

You can subtract mixed numbers by first subtracting the whole numbers and then subtracting the fraction parts. Sometimes you need to rename whole numbers or fractions so you can subtract.

Find each difference.

25.  $6 - 2\frac{2}{5}$

26.  $10\frac{7}{8} - 4\frac{1}{2}$

27.  $25\frac{1}{3} - 8\frac{5}{9}$

**Lesson 5-6**

solve equations  
with fractions

You can use mental math or the properties of inverse operations to solve equations involving fractions or mixed numbers.

*Enrichment graphs may try these in place of 22-27.*

Solve each equation.

28.  $\frac{5}{7} = p + \frac{2}{7}$

29.  $q + \frac{5}{8} = \frac{3}{4}$

30.  $\frac{2}{3} = t - \frac{4}{9}$

31.  $4\frac{2}{3} = x + 1\frac{1}{3}$

32.  $k - 2\frac{1}{6} = 8\frac{8}{9}$

33.  $13\frac{3}{5} + h = 20$

**Lesson 5-7**

add, subtract, and  
convert between units  
of time

The time between two events is called **elapsed time**. You may need to rewrite hours and minutes before you can add or subtract time.

Find the elapsed time for each interval.

34. from 8:15 A.M. to 11:56 A.M.

35. from 9:33 P.M. to 6:21 A.M.

36. You start doing things on your to-do list at 6:00 P.M. If you take a 25-minute break while doing homework, at what time will you complete your list?

Eat dinner	40 min
Homework	55 min
Walk dog	10 min